



STATE OF MICHIGAN

JENNIFER M. GRANHOLM  
GOVERNOR

DEPARTMENT OF TRANSPORTATION  
LANSING

GLORIA J. JEFF  
DIRECTOR

September 28, 2004

The Honorable Shirley Johnson, Chair  
Senate Appropriations Subcommittee  
on Transportation  
Michigan State Senate  
P.O. Box 30036  
Lansing, Michigan 48909-7536

The Honorable Scott Shackleton, Chair  
House Appropriations Subcommittee  
on Transportation  
Michigan House of Representatives  
P.O. Box 30014  
Lansing, Michigan 48909-7514

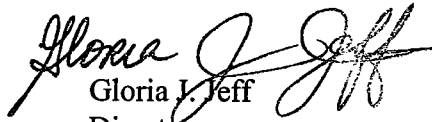
Dear Senator Johnson and Representative Shackleton:

Public Act 162, Section 602 states:

*If the department uses manufactured pipe for road construction drainage, the department shall require that pipe used under certain load-bearing conditions beneath the roadway meet the standards established by the American Society for Testing and Materials (ASTM) or American Association of State Highway and Transportation Officials (AASHTO). The department may also use the mandrel test for manufactured pipe 60 days after installation and provide a summary of the results of these inspections to the house of representatives and senate appropriations subcommittees on transportation and house and senate fiscal agencies.*

The Michigan Department of Transportation (MDOT), Bureau of Highway Operations, Administrative Services Section has established these guidelines and the status report is enclosed.

Sincerely,

  
Gloria J. Jeff  
Director

BFA:MF:FOD:EAT:kv

Enclosure

cc: Gary S. Olson, Senate Fiscal Agency  
Mitchell Bean, House Fiscal Agency

bcc: R. DeCook  
M. Frierson  
E. Timpf  
V. Blaxton  
L. Hank

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## STATUS REPORT

The department's 2003 *Standard Specifications for Construction* requires all manufactured pipe material used in road construction contracts to meet the applicable AASHTO or ASTM testing and materials specifications. Section 401.03 – Construction of the 2003 *Standard Specifications for Construction* requires mandrel testing on 50 percent of the installed lengths of culvert sections where smooth-lined corrugated plastic pipe is used. Any corrugated plastic pipe installed that experiences a 5 percent or more reduction in diameter size shall be removed and replaced.

Below is a list of projects that had corrugated plastic pipe installed and mandrel tested during FY 2004.

Project Number	Diameter (Inches)								
	12			15			18		
	Installed (ft)	Tested (ft)	Failed (ft)	Installed (ft)	Tested (ft)	Failed (ft)	Installed (ft)	Tested (ft)	Failed (ft)
18032/53307A	706.5	354.3	0	N/A	N/A	N/A	N/A	N/A	N/A
09031/50632A	4,600.5	4,600.5	2,086*	679.3	679.3	662*	727	727	0
73171/75175A	13,915	13,915	2,697**	2,667.5	2,667.5	0	314.5	314.5	0

\* All failed lengths of pipe were removed and either replaced or reset.

\*\*120 ft of failed length of pipe remained in place with a price reduction. The remainder was removed and either replaced or reset.